

JUL 2 1960

Public Roads

A JOURNAL OF HIGHWAY RESEARCH

Volume 30

April 1958-February 1960

U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

Contents of Volume 30

<i>No. 1, April 1958:</i>	Page	<i>No. 8, June 1959:</i>	Page
Performance of doweled joints under repetitive loading, by Leslie W. Teller and Harry D. Cashell.....	1	Correlation between chemical and mortar bar tests for potential alkali reactivity of concrete aggregates, by Bernard Chaiken and Woodrow J. Halstead.....	177
Errata (see vol. 29, No. 11, p. 256).....	21	Home-interview traffic surveys and related research activities, by John T. Lynch.....	185
<i>No. 2, June 1958:</i>	Page	Pretreatment of soils and clays for measuring external surface area by glycerol retention, by Earl B. Kinter and Sidney Diamond.....	187
New methods for determining capacity of rural roads in mountainous terrain, by O. K. Normann, J. O. Granum, and H. C. Schwender.....	25	Nonelastic deformations in continuous concrete structures, by Murrel O. Wilburn.....	191
The economic costs of motor-vehicle accidents of different types, by Robie Dunman.....	40	<i>No. 9, August 1959:</i>	
Use of the Swiss hammer for estimating the compressive strength of hardened concrete, by William E. Grieb....	45	Properties of highway asphalts—Part 1, 85-100 penetration grade, by J. York Welborn and Woodrow J. Halstead....	197
Wind tunnel for aerodynamic testing of section models of suspension bridges.....	51	Map: Maximum wind speeds to consider in designing highway signs.....	208
Power shovel productivity: a motion picture.....	52	North Dakota's use of aerial inventory for county general highway maps, by E. T. Bowen, C. J. Crawford, and J. B. Kemp.....	210
<i>No. 3, August 1958:</i>		Characteristics of traffic entering and leaving the central business district, by David A. Gorman and Stedman T. Hitchcock.....	213
Pore pressures in base courses, by Edward S. Barber and George P. Steffens		<i>No. 10, October 1959:</i>	
A rapid method utilizing surface area measurements in predicting the amount of cement needed to stabilize plastic soils, by Sidney Diamond and Earl B. Kinter.....		The use of backwater in the design of bridge waterways, by Joseph N. Bradley.....	221
Lateral placements of trucks on two-lane highways and four-lane divided highways, by Asriel Taragin.....		Assigning traffic to a highway network, by Glenn E. Brokke.....	227
<i>No. 4, October 1958:</i>		Vehicle acceptance rates of parking areas, by Arthur A. Carter, Jr., and Bessie A. Hayes.....	232
Evaluating trip forecasting methods with an electronic computer, by Glenn E. Brokke and William L. Mertz.....		Traffic signals and accidents in Michigan, by David Solomon.....	234
Factors affecting trip generation of residential land-use areas, by G. B. Sharpe, W. G. Hansen and L. B. Hamner..		Two simple techniques for determining the significance of accident-reducing measures, by Richard M. Michaels..	238
Table: State legal maximum limits of motor vehicle sizes and weights compared with AASHO standards.....		Estimated travel by motor vehicles in the United States, 1957, by Alexander French.....	240
Current structural bridge steels: a survey of usage and economy, by Nathan W. Morgan.....		<i>No. 11, December 1959:</i>	
<i>No. 5, December 1958:</i>		Circular reinforced concrete columns subjected to direct stress and bending, by A. Anthony Toprac.....	241
Travel patterns in 50 cities, by Frank B. Curran and Joseph T. Stegmaier.....		Sampling techniques applicable to the collection of economic data, by Nathan Lieder.....	246
Observations concerning urban traffic volume patterns in Tennessee, by Boris B. Petroff and Anthony P. Kancler..		Table: State legal maximum limits of motor vehicle sizes and weights compared with AASHO standards.....	250
Traffic article postponed.....		Factors influencing mass-transit and automobile travel in urban areas, by Warren T. Adams.....	256
<i>No. 6, February 1959:</i>		<i>No. 12, February 1960:</i>	
Progressive alterations in a sheet asphalt pavement over a long period of service, by Jarl T. Pauls and Woodrow J. Halstead.....		Forecasts of population, motor-vehicle registrations, travel, and fuel consumption, by Thomas R. Todd.....	261
Airphoto analysis of terrain for highway location studies in Maine, by Ernest G. Stoeckeler and William R. Gorrell..		Estimated travel by motor vehicles in the United States, 1958, by Alexander French.....	275
<i>No. 7, April 1959:</i>		Common-carrier passenger and freight services available to communities on the Interstate Highway System, by Arthur K. Branham and Florence K. Banks.....	276
Trends in travel to the central business district by residents of the Washington, D.C., metropolitan area, 1948 and 1955, by Jacob Silver.....		Surface and subsurface temperature variations and comparisons, by Harold L. Boen and Gerard A. DeMarrais..	283
Lost mixing time of dual drum pavers: a motion picture....			

List of Authors (and volume page references)

Page	Page	Page	Page				
Adams, W. T.....	256	DeMarrais, G. A.....	283	Hitchcock, S. T.....	213	Schwender, H. C.....	25
Banks, F. K.....	276	Diamond, Sidney.....	63, 187	Kancler, A. P.....	123	Sharpe, G. B.....	38
Boen, H. L.....	283	Dunman, Robie.....	40	Kemp, J. B.....	210	Silver, Jacob.....	153
Bowen, E. T.....	210	French, Alexander.....	240, 275	Kinter, E. B.....	63, 187	Solomon, David.....	214
Bradley, J. N.....	221	Gorman, D. A.....	213	Lieder, Nathan.....	216	Steffens, G. P.....	73
Branham, A. K.....	276	Gorrell, W. R.....	145	Lynch, J. T.....	185	Stegmaier, J. T.....	105
Brokke, G. E.....	77, 227	Granum, J. O.....	25	Mertz, W. L.....	77	Stoeckeler, E. G.....	115
Carter, A. A., Jr.....	232	Grieb, W. E.....	45	Michaels, R. M.....	238	Taragin, Asriel.....	31
Cashell, H. D.....	1	Halstead, W. J.....	133, 177, 197	Morgan, N. W.....	100	Teller, L. W.....	1
Chaiken, Bernard.....	177	Hamner, L. B.....	88	Pauls, J. T.....	133	Todd, T. R.....	261
Crawford, C. J.....	210	Hansen, W. G.....	88	Petroff, B. B.....	123	Toprac, A. A.....	241
Curran, F. B.....	105	Hayes, B. A.....	232	Welborn, J. Y.....	197	Wilburn, M. O.....	191